REMARKS

Entry of the foregoing and further and favorable consideration of the subject application pursuant to and consistent with 37 C.F.R. § 1.114 are respectfully requested and such action is earnestly solicited.

By the present amendment, Claim 1 has been amended to incorporate the subject matter of Claim 2. Claim 2 has been canceled, without prejudice or disclaimer of the subject matter contained therein. New Claim 14 has been added. Support for this claim may be found, at least, in Claims 2 and 12. No new matter has been added. Applicants expressly reserve the right to file a continuation or divisional application on any subject matter canceled by the present amendment.

Upon entry of the present amendment, Claims 1 and 3-14 will be pending in the present application. Claims 1 and 3-13 stand rejected.

Rejections Under 35 U.S.C. § 103(a)

Claims 1-13 stand rejected under 35 U.S.C. § 103(a) as allegedly unpatentable over Beihoffer et al. (U.S. Patent No. 6,222,091) in view of Wada et al. (U.S. Patent No. 5,994,614). Claim 2 has been canceled by the present amendment, thereby mooting this rejection as it applies to this claim. This rejection, to the extent that it may apply to the remaining claims, as amended, is respectfully traversed.

Initially, Applicants note that independent Claims 1 and 14 require that the degree of neutralization of the partially neutralized superabsorbent material is between 25 and 35%.

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In order to establish a case of *prima facie* obviousness, three basic criteria must be met: (1) there must be some suggestion or motivation to modify the reference or combine reference teachings, (2) there must be a reasonable expectation of success, and (3) the prior art reference(s) must teach or suggest all of the claim limitations. *See* M.P.E.P. §2142. Applicants respectfully submit that the Examiner has not established a *prima facie* case of obviousness.

Beihoffer et al. disclose multicomponent superabsorbent particles. These multicomponent particles comprise at least one acidic water-absorbing resin and at least one basic water-absorbing resin. These particles contain at least one microdomain of the acidic resin in contact with, or in close proximity to, at least one microdomain of the basic resin.

Conventional superabsorbent particles have lower absorption capacity for body.

fluids, such as urine or menses compared to deionized water, because such fluids contain electrolytes. This decrease in absorption is termed "salt poisoning." The purpose of multicomponent superabsorbent particles of Beihoffer et al. is to improve the performance of the superabsorbent with respect to absorbing electrolyte-containing liquids and counteracting the salt poisoning, thereby improving the absorption properties of the particles.

These beneficial properties are obtained when the microdomains of the acidic resin and the microdomains of the basic resin are in close proximity with each other. The multicomponent particles operate as an ion exchanger, thereby causing deionization of the liquid. The multicomponent particles contain at least about 50%, preferably at least about 70%, by weight of acidic resin plus basic resin. Nothing about the degree of neutralization

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of the superabsorbent particles can be gleaned from this information disclosed in Beihoffer et al.

The multicomponent particles of Beihoffer et al. can also be mixed with other superabsorbent particles. For example, in Claim 1 of Beihoffer et al., the article comprises a superabsorbent material comprising a) multicomponent superabsorbent particles, 0 to 16% neutralized, and b) particles of a second water-absorbing resin selected from the group consisting of an acidic water-absorbing resin, a basic water-absorbing resin, and mixtures thereof. Because the superabsorbent material comprises both a) and b), nothing can be gleaned about the total degree of neutralization of the superabsorbent material, nor of about the relation of the degree of neutralization of different portions thereof. In particular, Beihoffer et al. do not disclose or suggest a degree of neutralization of the partially neutralized superabsorbent material of between 25 and 35% as required by independent Claims 1 and 14.

On page 2 of the Official Action, the Examiner refers to col. 46, Il. 29-31, where it is indicated that the diaper core can contain zones of multicomponent SAP particles and zones of a second water-absorbent resin. The multicomponent particles are said to have a neutralization of 20%. *See* Office Action page 2, referring to col. 27, table 1. However, it can be seen that note 7) of table 1 refers to a mixture of 60% poly(DAEA) and 40% polyacrylic acid-20% neutralized. It is only the polyacrylic acid which is 20% neutralized, not the mixture. In contrast, in the presently claimed invention, all of the superabsorbent material used in the wetting region is partially neutralized superabsorbent material.

Contrary to the Office Action, there is no disclosure or suggestion in Beihoffer et al. regarding multicomponent particles being contained in the wetting region, and that the second resin is contained in a region outside of the wetting region (e.g., in Claim 1 of the present application). See Office Action, bottom of p. 2. Applicants are unclear as to source of evidence for this conclusion. Further, the Examiner has selected one example in a table allegedly having 20% neutralization, which really refers to a mixture of two kinds of particles, only one of which has a degree of neutralization of 20%. The two kinds of superabsorbent particles, mentioned, e.g., in Claim 1 of Beihoffer et al. or in the Example cited, do not have any relationship between each other regarding the degree of neutralization. That is, there is no motivation to select the particular relationship of the degree of neutralization of the two superabsorbent particles of the presently claimed invention, or the particularly claimed orientation to one another in the structure and/or the absorbent article. Morever, only in one place in the text of Beihoffer et al. is it stated that the particles could be contained in different zones (col. 46, 11. 29-31). There is no disclosure concerning what type of zones, how they should be oriented, or why this would be done. The Advisory Action again points to this vague allusion of Beihoffer et al. (col. 46, ll. 29-31) in support. However, the Advisory Action does not address Applicant's contention that this vague disclosure is not sufficient to render obvious the more specific orientation of presently claimed invention (e.g., Claims 1, 7, and 12). Particularly in light of the advantageous properties of the presently claimed invention over Beihoffer et al., Applicants respectfully submit that the Examiner must provide a more specific teaching than that contained in these 3 lines of Beihoffer et al. to support a finding of obviousness.

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The reference (or combination of references) must disclose or suggest each and every element of the presently claimed invention.

Additionally, the particles according to the presently claimed invention and those according to Beihoffer et al. differ from each other. The particles in the wetting region of the structure of the presently claimed invention possess the property that they do not swell as much as conventional particles (see, e.g., p. 4 of the specification), while the particles in Beihoffer et al. are said to have better absorption capacity than conventional SAPs (see, e.g., col. 5, ll. 17-20). Thus, the particles in the wetting region of the presently claimed invention do not swell in the same degree, as the particles of Beihoffer et al., thereby reducing the risk of gelling. Rather they would let the liquid pass to areas with particles having greater neutralization, which swell to a higher degree. The multicomponent particles in Beihoffer et al. have the property of high absorbency and this would not lead to the structure or article of the presently claimed invention, even assuming arguendo that one skilled in the art would place the particles of Beihoffer et al. according to the suggestion of the Examiner. Applicants respectfully submit that the Examiner has merely selected parts of the Beihoffer et al. publication and engaged in hindsight analysis in order to come to the solution according to the presently claimed invention. Applicants respectfully submit that the absorbent structures and articles of the presently claimed invention and those disclosed in Beihoffer et al. are not equivalent.

The different particles from a) and b) of Claim 1 in Beihoffer et al. are mainly contained in a mixture. A degree of neutralization of 20 to 50% will not be obtained with a) and b). According to the solution of the presently claimed invention, an article is

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obtained, having a pH between about 4 and 5. This is due to the degree of neutralization of the superabsorbent material. This advantageously provides an absorbent article that prevents the occurrence of malodors and skin irritation when worn. At the same time, a lower absorption has been obtained, which provides the advantages of decreasing the risk of gelling mentioned above. In particular, when the degree of neutralization is 35% or lower, a high portion of superabsorbent material is especially important. This is not obtained in any absorbent article disclosed or suggested by Beihoffer et al.

In the Advisory Action, the Examiner suggests that Applicant is relying upon features that are not claimed. Applicants respectfully submit that the features discussed above are found in the absorbent structures presently claimed. Applicants discussed the features as evidence of nonobviousness. There is no requirement that the claims must recite the advantageous features of the claimed invention. Indeed, such a requirement would make most patent claims incredibly prolix. Despite the fact that these features are not recited in the claims, the Examiner must consider all evidence of non-obviousness presented by Applicants before drawing a conclusion that the presently claimed invention is obvious.

Applicants respectfully submit that the above-mentioned deficiencies of Beihoffer et al. are not remedied by Wada et al. The Examiner appears to merely rely on Wada et al. for a teaching of thickness of an absorbent structure comprising superabsorbent material.

Office Action, p. 3.

Concerning Claim 2 (the subject matter of which is now incorporated in independent Claims 1 and 14), the Examiner indicates that it would be obvious to choose a degree of

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neutralization between 25 and 50% (presumably between 25 and 35% is intended) because it is allegedly not disclosed that this solves any particular problem or that it serves any particular purpose. Office Action, p. 3. However, a more narrow interval of pH will be obtained (4.3 to 4.7 instead of about 4 and just above 5), which will provide even better control of any malodors and skin irritation. Thus, the Examiner's statement that the invention would perform equally well with a degree of neutralization between 20 and 50% is incorrect.

Concerning Claim 7, the Examiner refers to Figure 4D. Office Action, p. 4. However, this figure discloses a multicomponent particle 80, which contains alternating zones of acidic water-absorbing resin 82 and basic water-absorbing resin 84. See col. 8, ll. 55-67; compare with Figures 4A to 4C. This does not refer to an absorbent structure with different zones, but merely to a multicomponent particle (e.g., component a of Claim 1) having a particular degree of neutralization, and clearly differs from the zones referred to in Claims 7 and 8 in the presently claimed invention. The Examiner refers to the same alleged disclosure of Beihoffer et al. regarding Claim 8.

Applicants further submit that Beihoffer et al., even in combination with Wada et al., does not disclose or suggest an absorbent structure according to present Claim 12 in light of the same arguments as above, and particularly, the discussion concerning Figure 4D.

As mentioned above, the presently claimed invention will not have very good absorption properties in the wetting region. The partially neutralized particles, which are used in the wetting zone, will have a lower absorption capacity than conventional

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superabsorbents. The multi-component particles according to Beihoffer et al. have a higher absorption capacity than conventional superabsorbents. Hence, the structure according to the presently claimed invention and the structure in Beihoffer et al. cannot be similar.

Moreover, the partially neutralized particles according to the present invention cannot be similar to the multicomponent particles according to Beihoffer et al.

According to the presently claimed invention, a decrease of any skin irritation is obtained, because of the advantageous pH obtained in the article during use. This is likely not obtained in Beihoffer, because the particles, which are partially neutralized, are mixed with other superabsorbing materials.

Therefore, the disclosures of Beihoffer et al. and Wada et al., either alone or in combination, do not disclose or suggest each and every element of the presently claimed invention. Nor is there any motivation for one skilled in the art to modify either the Beihoffer et al. or Wada et al. publications in such a manner as to arrive at the presently claimed invention. Additionally, the presently claimed invention has different properties and advantages not found in either the Beihoffer et al. or Wada et al. Accordingly, withdrawal of this rejection is respectfully requested.

Conclusions

From the foregoing, further and favorable consideration in the form of a Notice of Allowance is respectfully requested and such action is earnestly solicited.

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Should the Examiner have any questions regarding this Amendment, or regarding the application in general, she is cordially invited to contact the undersigned at the number listed below.

Respectfully submitted,

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